

approximately 95 to 100% of said second photopolymer, wherein said third material forms a support layer.

30. (Twice amended) A method for three-dimensional printing of a model, said method comprising:

dispensing a first photopolymer and a second photopolymer from at least one printing head, said first photopolymer and said second photopolymer being different; and

combining said first and second photopolymers in a variably selectable proportion to produce a third material.

32. (Twice Amended) The method according to claim 30, wherein said third material forms a model layer, the method comprising:

combining said first and second photopolymers to form a support layer, said support layer having a lower modulus of elasticity than said model layer.

33. (Once Amended) The method according to claim 32 wherein said support layer includes at least a plurality of release blocks.

34. (Twice Amended) A system for three-dimensional printing of a model, the system comprising:

at least one printing head;

at least first and second dispensers connected to said at least one printing head for dispensing at least first and second photopolymers respectively, said first photopolymer and said second photopolymer being different; and

a controller connected to said at least one printing head to cause said at least one printing head to dispense said first and second photopolymers so that said first and second photopolymers are combined in a variably selectable proportion to produce a third material.

35. (Twice Amended) The system according to claim 34 wherein first and second photopolymers are combined into build layers and support layers, said build layers

and support layers each including differing proportions of said first and said second photopolymers.

36. (Twice Amended) A system for three-dimensional printing of a model, the system comprising:

at least one printing head, having a plurality of nozzles;

a plurality of dispensers connected to said at least one printing head for dispensing a plurality of different photopolymers, each photopolymer having a different color; and

a controller connected to said at least one printing head for combining said plurality of photopolymers in selectable proportions to produce a third material.

Please add the following new claims:

42. (New) The method of claim 30, comprising combining said first and second photopolymers to produce a support layer.

43. (New) The method of claim 30, comprising combining said first and second photopolymer materials to produce a model layer.

44. (New) The method of claim 30, comprising combining said first and second photopolymers to produce a release layer.

45. (New) The method according to claim 30, comprising:

combining said first and second photopolymers to produce a support layer; and

combining said first and second photopolymers to produce a model layer, the support layer having a lower modulus of elasticity than the model layer.

46. (New) The method according to claim 30, comprising:

combining said first and second photopolymers to produce a release layer; and

combining said first and second photopolymers to produce a model layer, the release layer having a lower modulus of elasticity than the model layer.

47. (New) The system of claim 34, wherein said third material forms a support layer.

48. (New) The system of claim 34, wherein said third material forms a model layer.

49. (New) The system of claim 34, wherein said third material forms a release layer.

50. (New) The system of claim 34, wherein the controller is operative to cause said at least one printing head to dispense said photopolymers so that said photopolymers are combined to form a support layer; and

wherein the controller is operative to cause said at least one printing head to dispense said photopolymers so that said photopolymers are combined to form a model layer, the support layer having a lower modulus of elasticity than the model layer.

51. (New) The system of claim 34, wherein the controller is operative to cause said at least one printing head to dispense said photopolymers so that said photopolymers are combined to form a release layer; and

wherein the controller is operative to cause said at least one printing head to dispense said photopolymers so that said photopolymers are combined to form a model layer, the release layer having a lower modulus of elasticity than the model layer.